RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(probe B1 linked with probe B2; **oligonucleotide** probe **linked** with another probe and **ligase** chain reaction in highly sensitive and specific nucleic acid amplification method)

L16 ANSWER 62 OF 120 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:646241 CAPLUS
DOCUMENT NUMBER: 117:246241
TITLE: Ligation-anchored PCR: a simple amplification technique with single-sided specificity
AUTHOR(S): Troutt, Anthony B.; McHeyzer-Williams, Michael G.; Pulendran, Bali; Nossal, G. J. V.
CORPORATE SOURCE: Walter and Eliza Hall Inst. Med. Res., 3050, Australia
SOURCE: Proceedings of the National Academy of Sciences of the United States of America (**1992**), 89(20), 9823-5
CODEN: PNASA6; ISSN: 0027-8424
DOCUMENT TYPE: Journal
LANGUAGE: English
SO Proceedings of the National Academy of Sciences of the United States of America (**1992**), 89(20), 9823-5
CODEN: PNASA6; ISSN: 0027-8424
AB A simple, efficient, and sensitive technique has been developed for amplification of cDNAs encoding mols. with 5' regions of unknown sequence. In this ligation-anchored PCR, T4 RNA **ligase** is used to covalently **link** an anchor **oligonucleotide** to first-strand cDNAs. These anchored cDNAs are then amplified by using one PCR primer specific for the anchor and another specific for a sequence within the mol. of interest. The anchor oligonucleotide has been especially designed to facilitate subsequent anal. and cloning of the resultant PCR products. This three-stage procedure does not require purification of product between steps and avoids many of the tech. difficulties associated with established anchored PCR protocols. The efficacy of ligation-anchored PCR was demonstrated by amplification of a specific IgG1 cDNA; total RNA equivalent to as few as 100 cells yielded the expected PCR product.

L16 ANSWER 84 OF 120 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1982:487828 CAPLUS
DOCUMENT NUMBER: 97:87828
TITLE: Ligation of restriction endonuclease-generated DNA fragments using immobilized T4 DNA ligase
AUTHOR(S): Buelow, Leif; Mosbach, Klaus
CORPORATE SOURCE: Chem. Cent., Univ. Lund, Lund, S-220 07/7, Swed.
SOURCE: Biochemical and Biophysical Research Communications (**1982**), 107(2), 458-64
CODEN: BBRCA9; ISSN: 0006-291X
DOCUMENT TYPE: Journal
LANGUAGE: English
SO Biochemical and Biophysical Research Communications (**1982**), 107(2), 458-64
CODEN: BBRCA9; ISSN: 0006-291X
AB T4 **DNA ligase** (I) was covalently **coupled** to Sepharose 4B using 2,2,2-trifluoroethanesulfonyl chloride activation. Immobilized I catalyzed the joining of restriction endonuclease-generated DNA fragments with sticky ends as well as blunted-ended DNAs. Immobilization provided an increased stability. At 4°, immobilized I remained active for ≥3 mo. Nucleic acid synthesis and in vitro DNA recombination should be the main fields of application for such immobilized I.

=> d hist full

(FILE 'HOME' ENTERED AT 10:18:48 ON 08 MAR 2006)

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     FILE 'CAPLUS, MEDLINE, BIOSIS' ENTERED AT 10:19:01 ON 08 MAR 2006
L1          856 SEA ABB=ON  PLU=ON  ("DNA" OR NUCLE? OR POLYNUCL? OR OLIGONUCL?
                ) (10A) (TETHER? OR LINK? OR ATTACH? OR COUPL? OR ADHER? OR
                CONNECT? OR BIND? OR FASTEN?) (10A) (LIGASE)
L2          534 SEA ABB=ON  PLU=ON  ("DNA" OR NUCLE? OR POLYNUCL? OR OLIGONUCL?
                ) (5A) (TETHER? OR LINK? OR ATTACH? OR COUPL? OR ADHER? OR
                CONNECT? OR BIND? OR FASTEN?) (5A) (LIGASE)
L3          320 DUP REM L2 (214 DUPLICATES REMOVED)
L4         2170 SEA ABB=ON  PLU=ON  (TETHER? OR LINK? OR ATTACH? OR ADHER? OR
                CONNECT? OR BIND? OR FASTEN?) (10A) (LIGASE)
L5         1362 SEA ABB=ON  PLU=ON  (TETHER? OR LINK? OR ATTACH? OR ADHER? OR
                CONNECT? OR BIND? OR FASTEN?) (5A) (LIGASE)
L6         1211 SEA ABB=ON  PLU=ON  ("DNA" OR NUCLE? OR POLYNUCL? OR OLIGONUCL?
                ) (S) (TETHER? OR LINK? OR ATTACH? OR COUPL? OR ADHER? OR
                CONNECT? OR BIND? OR FASTEN?) (S) (LIGASE)
L7          238 SEA ABB=ON  PLU=ON  L3 AND PY<=2002
                D L7 TI 1-20
                D L7 IBIB KWIC 6,7,13
                D L7 TI 21-61
                D L7 IBIB KWIC 33,34,38,43
L8        15528 SEA ABB=ON  PLU=ON  ("DNA" OR NUCLE? OR POLYNUCL? OR OLIGONUCL?
                ) (S) (TETHER? OR LINK? OR ATTACH? OR COUPL? OR ADHER? OR
                CONNECT? OR BIND? OR FASTEN?) (S) (POLYMERASE)
L9         6210 SEA ABB=ON  PLU=ON  ("DNA" OR NUCLE? OR POLYNUCL? OR OLIGONUCL?
                ) (5A) (TETHER? OR LINK? OR ATTACH? OR COUPL? OR ADHER? OR
                CONNECT? OR BIND? OR FASTEN?) (5A) (POLYMERASE)
L10        3454 DUP REM L9 (2756 DUPLICATES REMOVED)
L11        2904 SEA ABB=ON  PLU=ON  L10 AND PY<=2002
                D L11 TI 1-20
                D L11 TI 21-60
                D L11 IBIB KWIC 3,14,16
                D L11 IBIB KWIC 25,34,58
L12        1253 SEA ABB=ON  PLU=ON  ("DNA" OR NUCLE? OR POLYNUCL? OR OLIGONUCL?
                ) (5A) (TETHER? OR LINK? OR ATTACH? OR COUPL?) (5A) (POLYMERASE
                )
L13         715 DUP REM L12 (538 DUPLICATES REMOVED)
L14         225 SEA ABB=ON  PLU=ON  ("DNA" OR NUCLE? OR POLYNUCL? OR OLIGONUCL?
                ) (5A) (TETHER? OR LINK? OR ATTACH? OR COUPL?) (5A) (LIGASE)
L15         156 DUP REM L14 (69 DUPLICATES REMOVED)
L16         120 SEA ABB=ON  PLU=ON  L15 AND PY<=2002
L17         569 SEA ABB=ON  PLU=ON  L13 AND PY<=2002
                D L16 TI 1-20
                D L16 TI 21-60
                D L16 TI 61-90
                D L16 TI 91-120
                D L16 IBIB KWIC 8,24,34
                D L16 IBIB KWIC 41,47,62,84


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     FILE CAPLUS
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FILE LAST UPDATED: 7 Mar 2006 (20060307/ED)